

IN THE CLAIMS:

Please amend the claims as follows:

1. **(Currently Amended)** A process for grinding an outer peripheral surface of a rotated work (10) by a rotary grindstone (22) rotated by a wheel spindle (21), ~~characterized in that said~~ the process ~~comprises the~~ comprising the following steps of:

coaxially mounting a rotary brush (40) with and to one side of said rotary grindstone (22) so as to be rotated along with said rotary grindstone (22),

grinding said work (10) by said rotary grindstone (22) and then moving said rotary grindstone (22) and said work (10) axially relative to each other, and then

brushing a ground surface of said work (10) by said rotary brush (40), ~~thereby polishing~~ to polish the ground surface of said work (10).

2. **(Currently Amended)** A process for grinding an outer peripheral surface of a rotated work (10) by a rotary grindstone (22) rotated by a wheel spindle (21), ~~characterized in that said~~ the process ~~comprises the~~ comprising the following steps of:

coaxially mounting a rotary brush (40) with and to one side of said rotary grindstone (22) so as to be rotated along with said rotary grindstone (22),

grinding said work (10) by said rotary grindstone (22) and then moving said rotary grindstone (22) and said work (10) axially relative to each other, and then

brushing end edges of a ground surface of said work (10) by said rotary brush (40), ~~thereby removing~~ to remove a ground flash of said work (10).

3. **(Currently Amended)** A process for grinding an outer peripheral surface of a rotated work (10) by a rotary grindstone (22) rotated by a wheel spindle (21), ~~characterized in that said~~ the process comprises ~~the~~ comprising the following steps of:

coaxially mounting a rotary brush (40) with and to one side of said rotary grindstone (22) so as to be rotated along with said rotary grindstone (22),

grinding said work (10) by said rotary grindstone (22) and then moving said rotary grindstone (22) and said work (10) axially relative to each other, and then

brushing the entire ground surface of said work (10) from end edges of the ground surface by said rotary brush (40), ~~thereby achieving the removal of~~ to remove a ground flash of said work (10) and ~~the polishing of~~ to polish the ground surface.

4. **(Currently Amended)** A grinding apparatus including a rotary grindstone (22) mounted to a wheel spindle (21) to grind an outer peripheral surface of a work (10) by the rotation of the rotary grindstone (22), ~~characterized in that~~ the grinding apparatus comprising:

a rotary brush (40) ~~is~~ coaxially mounted with and adjacent to said rotary grindstone (22) for brushing the work (10) having a diameter larger than that of said rotary grindstone (22) and ground by said rotary grindstone (22).

5. **(Currently Amended)** A grinding apparatus according to claim 4, wherein said rotary brush (40) ~~is formed into~~ has a variable-diameter type, so that when said wheel spindle (21) is rotated at a low speed lower than a grinding rotational speed of said rotary grindstone (22), the diameter of said rotary brush (40) is smaller than that of said rotary grindstone (22), but when said wheel spindle (21) is rotated at a speed equal to said grinding rotational speed, the diameter of said rotary brush (40) is larger than that of said rotary grindstone (22).

6. **(Currently Amended)** A grinding apparatus according to claim 5, wherein said rotary brush (40) is comprised of a brush body (41) mounted adjacent to said rotary grindstone (22), and a brush element wire (42) embedded in an outer periphery of said brush body (41), said brush element wire (42) having contraction and expansion properties provided thereto, so that when said brush element wire (42) is in a free state, said brush element wire (42) is in a contracted state in which the diameter of said rotary brush (40) is smaller than that of said rotary grindstone (22), and when said wheel spindle (21) is rotated at a predetermined rotational speed or more, said brush element wire (42) is expanded by a centrifugal force, whereby the diameter of said rotary brush (40) is larger than that of said rotary grindstone (22).

7. **(Currently Amended)** A grinding apparatus according to claim 6, wherein a single or a plurality of resilient bent portions (42a) are formed on said brush element wire (42) to provide the contraction and expansion properties to said brush element wire (42).

8. **(Currently Amended)** A grinding apparatus according to claim 5, wherein said rotary brush (40) is comprised of a brush body (41) mounted adjacent to said rotary grindstone (22), and a brush element wire (42) embedded in an outer periphery of said brush body (41), said brush element wire (42) being disposed so that when said brush element wire (42) is in a free state, said element wire (42) is inclined with respect to a radius line (R) of said brush body (41), so that the diameter of said rotary brush (40) is smaller than that of said rotary grindstone (22), but when said wheel spindle (21) is rotated at a predetermined rotational speed or more, said brush element wire (42) is allowed to rise toward said radius line (R) by a centrifugal force, so that the diameter of said rotary brush (40) is larger than that of said rotary grindstone (22).